

MATERIAL SAFETY DATA SHEET

R 05/25/88

CODE 30121

SECTION 1

Manufacturer's Name MacDermid Incorporated		EMERGENCY TELEPHONE 203-575-5700
ADDRESS (Number, Street, City, State, Zip Code) 526 Huntingdon Avenue Waterbury, CT. 06708		MFSA EMERGENCY 24 HOUR HOTLINE: (MEDICAL) (313) - 644 - 5626
CFR-49 - DOT Proper Shipping Name Chromic Acid Mixture, Dry Oxidizer, NA 1463		
CHEMICAL NAME AND SYNONYMS Chromium Trioxide		TRADE NAME AND SYNONYMS Chromic Acid Flake
CHEMICAL FAMILY Oxidizer		FORMULA CrO_3

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVE & SOLVENTS	% N/A	TLV (UNITS)	ALLOYS & METALLIC COATINGS	% N/A	TLV (UNITS)
PIGMENTS	"		BASE METAL	"	
CATALYST	"		ALLOYS	"	
VEHICLE	"		METALLIC COATINGS	"	
SOLVENTS	"		FILLER METAL PLUS OR CORE FLUX	"	
ADDITIVES	"		OTHERS	"	
OTHERS	"				
HAZARDOUS MIXTURES OR OTHER LIQUIDS, SOLIDS, OR GASES Chromic Acid (1333-82-0) Suspect Carcinogen (NTP, IARC)				% >99	TLV (UNITS) 0.05mg(Cr)/m

SECTION III - PHYSICAL

DATA			
BOILING POINT (F)	N/A	SPECIFIC GRAVITY ($\text{H}_2\text{O} = 1$)	2.70
VAPOR PRESSURE (MM. HG.)	0	PERCENT VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE ($= 1$)	0
SOLUBILITY IN WATER	62% w/w		
APPEARANCE AND ODOR Dark red flakes or powder - no odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) Non Flammable	FLAMMABLE LIMITS N/A	LEL	UEL
EXTINGUISHING MEDIA Waterspray, CO_2 , dry chemical, foam, halon			
SPECIAL FIRE FIGHTING PROCEDURES Wear full protective clothing, self-contained breathing apparatus. Material supplies oxygen to fire. Smothering techniques may be ineffective.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Material is a powerful oxidizer. Contact with combustible materials may cause fire.			

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

0.05 mg(Cr)/m³

EFFECTS OF OVEREXPOSURE - UNLESS OTHERWISE STATED, CHRONIC OR LONG-TERM HEALTH EFFECTS KNOWN! Marked irritation and burns to eyes, skin and mucous membranes. Corrosive to living tissue. Inhalation of dusts, mists can cause ulceration or perforation of nasal septum, as well as irritation and damage to respiratory tract. Can cause systemic poisoning.

EMERGENCY AND FIRST AID PROCEDURES Inhalation: Remove to fresh air.

Eyes: Flush with water for 20 minutes, contact physician at once!

Skin: Wash thoroughly with water, contact physician for burns.

Internal: Wash out mouth, give water to drink. Do not induce vomiting. Contact physician at once!

SECTION VI - REACTIVITY DATA

UNSTABLE

CONDITIONS TO AVOID

STABLE

N/A

X

INCOMPATIBILITY (MATERIALS TO AVOID)

Flammable, combustible and alkaline materials, organics, reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Oxygen gas

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

MAY OCCUR

N/A

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - WEAR PROTECTIVE CLOTHING NEVER DISCHARGE DIRECTLY INTO SEWERS OR WATERWAY. Scoop up as much spilled material as possible and place in steel containers. Flush remaining material to chemical treatment drain with cold water.

WASTE DISPOSAL METHOD - ALWAYS CHECK & COMPLY WITH GOVERNMENT DISPOSAL REGULATIONS

Dispose of as solid hazardous waste at approved secure landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)

Dust type mask- NIOSH approved

VENTILATION

LOCAL EXHAUST

SPECIAL

X

N/A

MECHANICAL (GENERAL)

OTHER

N/A

N/A

PROTECTIVE GLOVES

Rubber

EYE PROTECTION

Safety goggles/face shield

OTHER PROTECTIVE EQUIPMENT

Rubber apron/rubber boots

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep in tightly closed containers in a cool, dry storage location away from incompatible materials.

OTHER PRECAUTIONS - AVOID EYE AND SKIN CONTACT - ALWAYS WASH CLOTHING BEFORE RE-USE

Do not permit spilled material to remain in contact with flammable materials. Wash down spills promptly.

PREPARED BY: MacDermid, Incorporated

DATE: 05/25/88

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